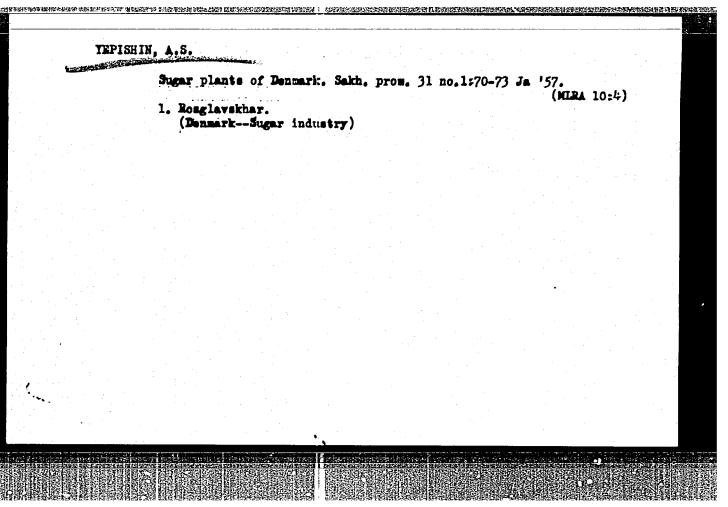
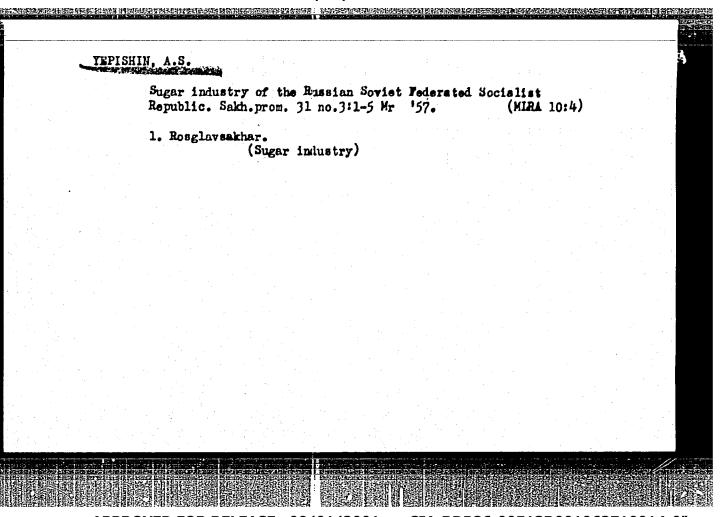
YEPISHI	N, A. S.				
	Sugar industry Republic. Sak	of the Russian Sovieth. prom. 3: 1-5 Mr	et Federated S	Socialist (MIRA 10:4)	
	1. Rosglavsak	thar. (Duhsr industry)			



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Tepishin, A	.S.	
Diff. ed. academic and academic	Sugar industry in Holland. Sakh. prom. 31 no.2:61-68 F '57. (MLRA 10	, (,)
	1. Rosglavsakhar. (HollandSugar industry)	

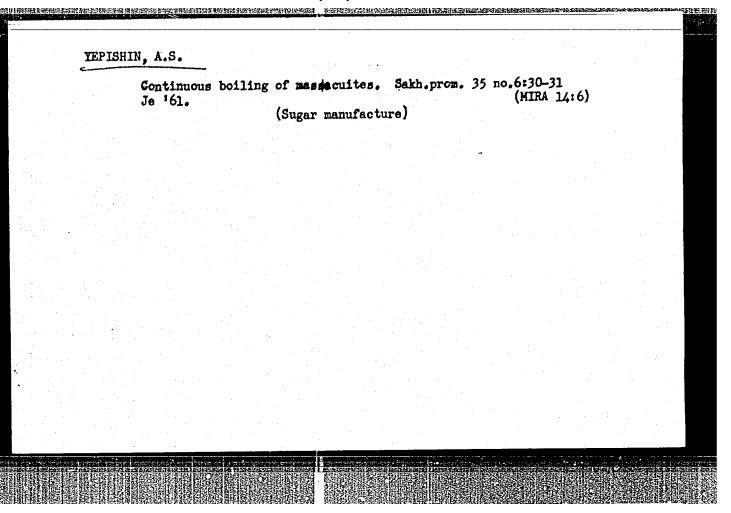


TEPISHIN, A.S. Reexamining standard designs of production lines and types of equipment. Sakh.prom. no.4:5-4 Ap '60. (MIRA 13:8) 1. Gosudarstvennyy nauchno-tekhnicheskiy komitet SSSR. (Sugar industry--Equipment and supplies)

YEPISHIN, A.S.

Results of the proceedings of the Conference on the Selection of Technological Systems and Equipment for Factories. Sakh.prom. 34 no.10:3-8 0 160. (MIRA 13:10)

1. Gosudarstvennyy nauchno-tekhnicheskiy komitet SSSR. (Sugar industry--liquipment and supplies)



ZOTOV, V.P.; MAKHINYA, M.M.; PARSHIKOV, M.Ya.; GAVRILOV, A.N.; SILIN, P.M.;
GOLOVIN, P.V.; KHEYZE, N.V.; BUZANOV, I.F.; KHELEMSKIY, M.Z.;
YAPASKUKI, V.V.; SHARKO, A.P.; SANOY, N.M.; LITVAK, I.M.; IVANOV,
S.Z.; LEPESHKIN, I.P.; KLEYMAN, B.M.; YEPISHIN, A.S.; GOLUB, S.I.;
GERASIMOV, S.I.; GEUBE, V.R.; PASHKOVSKIY, F.M.; LITVINOV, Ye.V.;
BENIN, G.S.; IVANOV, P.Ya.; VINOGRADOV, N.V.; POHOMARENKO, A.P.:
ZHIDKOV, A.A.; KOVAL', Ye.T.; KARTASHOV, A.K.; NOVIKOV, V.A.

Sixtieth birthday of A.N.Shakin, Director of the Central
Scientific Research Institute of the Sugar Industry. Sakh.
prom. 35 no.7:33 Jl '61. (MIRA 14:7)
(Shakin, Anatolii Nikitovich, 1901-)
(Sugar industry)

YE PISHIN, A.S.

Scientific and economic conference on the improvement of production flow sheets and equipment types in sugar factories. Sakh.prom. 37 no.9:15-21 S 163. (MIRA 16:9)

1. Gosudarstvennyy komitet po koordinatsii nauchno-issledovatel skikh rabot SSSR.

(Sugar manufacture) (Sugar machinery)

KHELEM:KIY, Mikhail Zakharovich, profe; YEPISHIN, A.S., inzh., retsenzent; PRITYKINA, L.A., red.

[Storage of sugar beets] Khranenie sakharnoi svekly. Moskva, Izd-vo "Pishchevaia promyshlennost", "1964. 470 p. (MIRA 17:4)

3(6),20(5),20(4)

AUTHORS: Grushinskiy, N.P., and Yepishin, Ivi.

SOV/33-36-1-23/31

TITLE:

Special Quartz Clocks for Gravimetric Measurements, Their Use on the Diesel-Engine Ship "Ob" During the Antarctic Expedition

of 1956-1957

PERIODICAL: Astronomicheskiy zhurnal, 1959, Vol 36, Nr 1, pp 172-178 (USSR)

ABSTRACT:

The authors describe a transportable quartz clock made in the gravimetric laboratory of the Shternberg Astronomical Institute. The applications of the clock during the voyage are discussed and it is stated that it satisfies all the requirements of

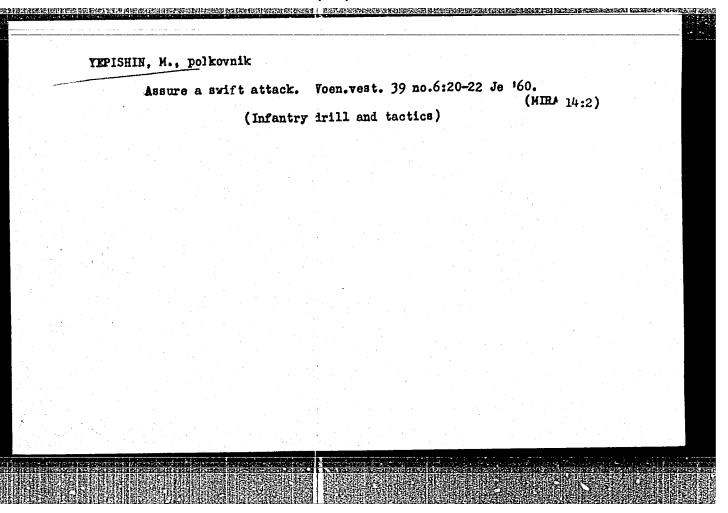
gravimetric determinations.

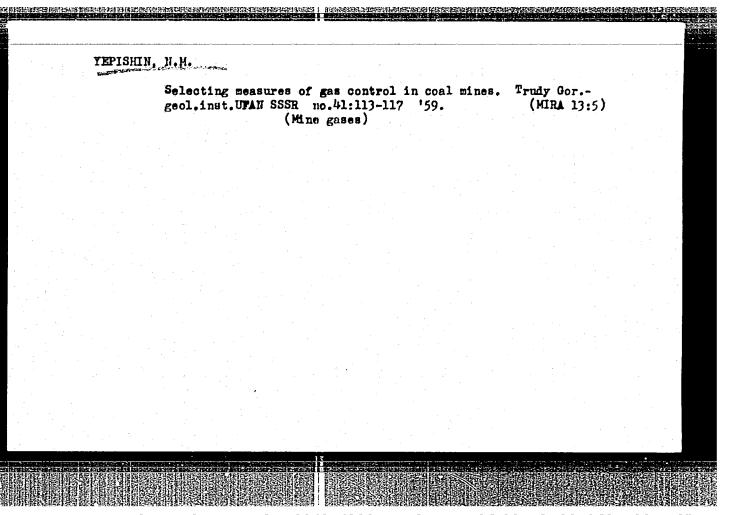
There are 8 tables.

ASSOCIATION: Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga (State Astronomical Institute imeni P.K. Shternberg)

SUBMITTED: December 20, 1957

Card 1/1





KIRILLOV, B.P., prof.; PETROVSKAYA, A.V., kand.med.nauk; MYASNIKOVA, M.N.; MAKEVINA, T.N. [deceased]; YEPISHIN, N.M. (Ryazan')

排骨部的企业的12年最终保护的分别特别的更好大区和全性的全种系统的经验的实验的关系来的(全种自己的信息的联系的运输的关系,但是他的经验的现在分别的基础的实验的现在分别的

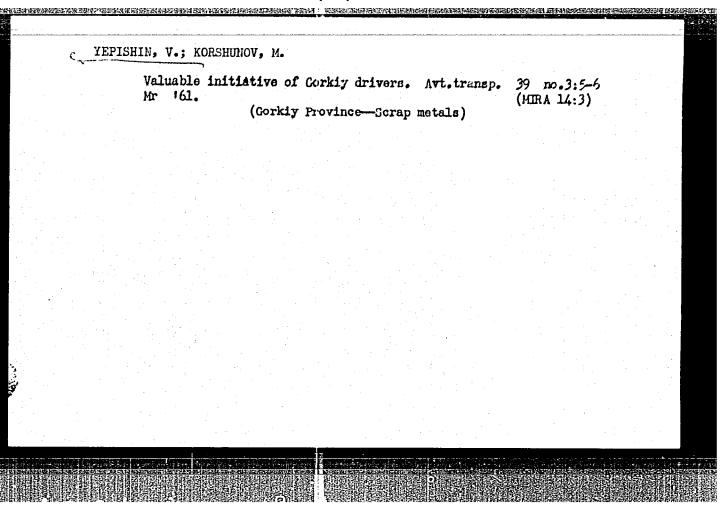
Role of creating organic anastomoses invarious types of vascular pathology of the internal organs. Khirurgiia 36 no.12:3-4 '60. (MIRA 14:1)

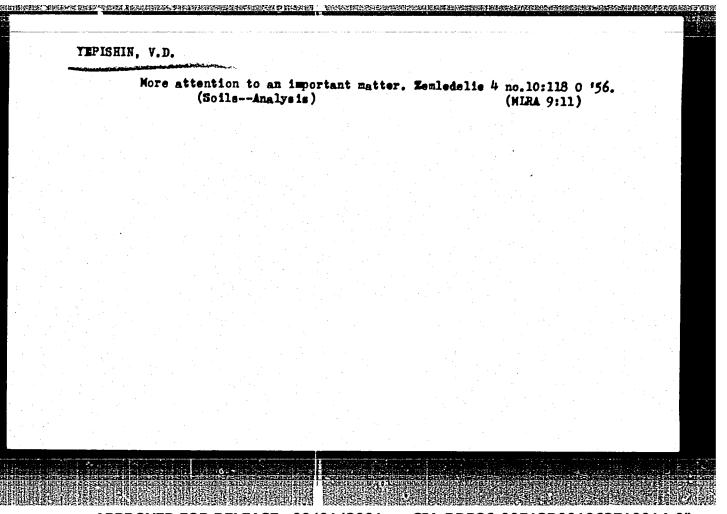
(LIVER-CIRRHOSIS)

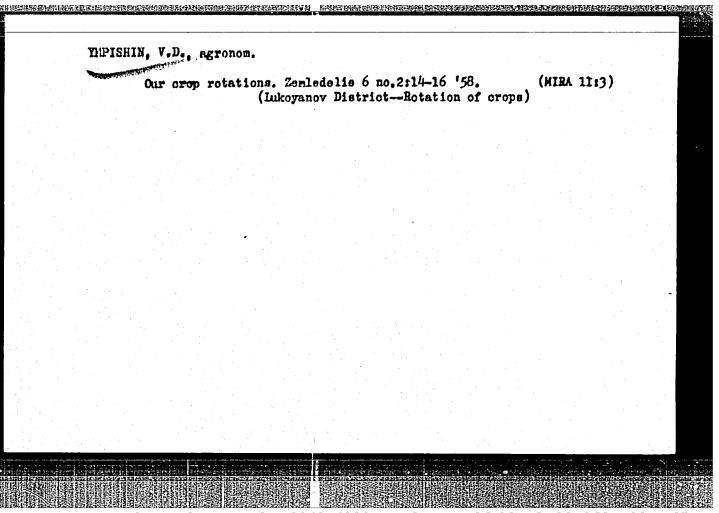
BIDKOVA, L.M.; BURLYA, T.G.; YEPISHIN, N.P.; LADUT'KO, S.V.; SHCHERBINA, V.A.

Effect of bone marrow homotransfusions on the clinical course and biochemical changes in acute radiation sickness. Gemat. i perel. krowi 1:99-102 65. (MIRA 18:10)

1. Vinnitskiy meditsinskiy institut.







YEPISHIN, V.F., inzh.

Portable machine for cutting wires and lines in the erection of overhead power transmission lines, Energetik 11 no.11: 28-29 N 163. (MIRA 16:11)

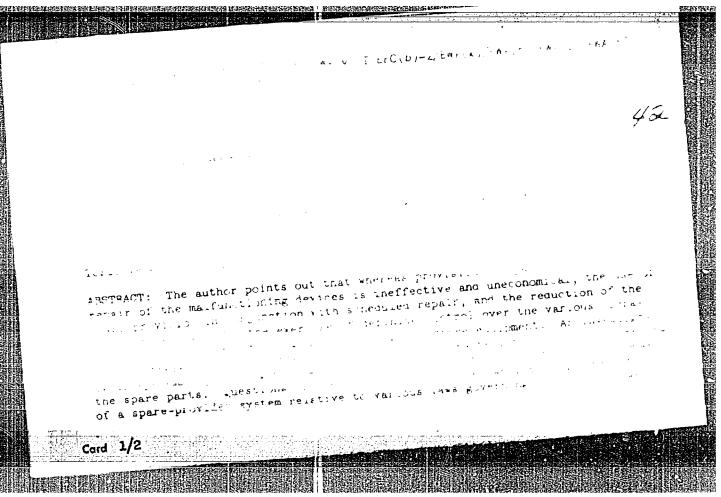
YEPISHIN, Vladimir Fedorovich; KAYETANOVICH, M.M., red.

[Cutting of wires and cables] Rezka provodov i trosov.

Moskva, Energiia, 1965. 32 p. (MIRA 19:1)

KAPASEV, G.A., insher YEPISHIN, V.F., inshe

Testing of insulators and line equipment for use in countries with tropical climators Elok, sta. 36 no.12:64-66 D *65. (MEM 18:12)



L 25098-65

ACCESSION NR: AT5002483

repair, and optimal conditions are indicated. It is assumed that the main (working) element is continuously nonitored so that failure is immediately detected and the space element placed in operation, and the system itself is con-

customarily used in mass-service and reliability theory. The section headings are as follows: I. Determination of the reliability that acteriation is a space-provided system with incomplete control of the spare equipment. 2. Extrema problems. Integral method. 3. Efficiency of control in systems with multiple reserves. 4. Stability of reliability characteristics of spare-provided systems. Orig. art. has: 36 formulas and I table.

ASSOCIATION: None

CHIBALLALED: Q

ENCT.: OC

SUB CODE: IE

0

NR REF SOV: OC3

OTHER: 001

Card 2/2

l. Iz kafedry infektsionnykh bolezney (Astrakhanskogo meditsinskogo instituta imeni prof. Bekhtereva (glavnyy vrach - V.I.Gembitskiy). (AUTONOMI	i infektsionnoy bolnitsy
\ZDZ#####	IC DRUGS)

NOVIKOV, S.S.; BELIKOV, V.M.; YEPISHINA, L.V.

是是现代。其他的特殊的特别,但我们们对自然的对抗,可以是需要实现的对抗,我们们还是这个的人的关系。而可能是这种,这个就是我们的法院的理解的现在,那里是否在**现在**了这种是

Action of chlorinating agents on nitrodiols. Izv.AN SSSR.Otd.- khim.nauk no.6:1111-1116 '62. (MIRA 15:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Ethanediol) (Chlorination)

BOGOMOLOV, B.P.; YEPISHINA, I.I.

Bacteriophage of Escherichia coli M₁₇. Zhur. mikrobiol., epid. i izmun. 41 no.3:137-138 Mr '64. (MIRA 17:11)

1. Astrakhanskiy gosudarstvennyy meditsinskiy institut.

YEPISHINA, I.I.

orang managang pagkan 1998 pagkan pagkan

Methodology of using neuroplegic preparations in the compound treatment of tetanus. Sov. med. 28 no.1:79-82 Ja 165. (MIRA 18:5)

1. Astrakhanskaya infektsionnaya bol'nitsa imeni prof. V.M.Bekhtereva (glavnyy vrach T.A. Kol'yakova, nauchnyy rukovoditel' - deystvitel'nyy chlen AMN SSSR prof. G.P.Rudnev).

NOVIKOV, S.S.; SEVOST'YANOVA, V.V.; YEPISHINA, L.V.

Synthesis of nitroelkyl siloxanes. Izv. AN SSSR Ser.khim. no.1C: 1860-1861 0 '63. (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

ACC 111: AP6030569

SOURCE CODE: UR/0413/66/000/016/0035/0036

INVENTOR: Lebedev, O. V.; Yepishina, L. V.; Sevost'yanova, V. V.; Novikova, T. S.; Khmel'nitskiy, L. I.; Novikov, S. S.

ORG: none

TITLE: Preparation of 2-nitro derivatives of imidazole. Class 12, No. 184868 [announced by Institute of Organic Chemistry im. N. D. Zelinskiy (Institut organicheskoy khimii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 35-36

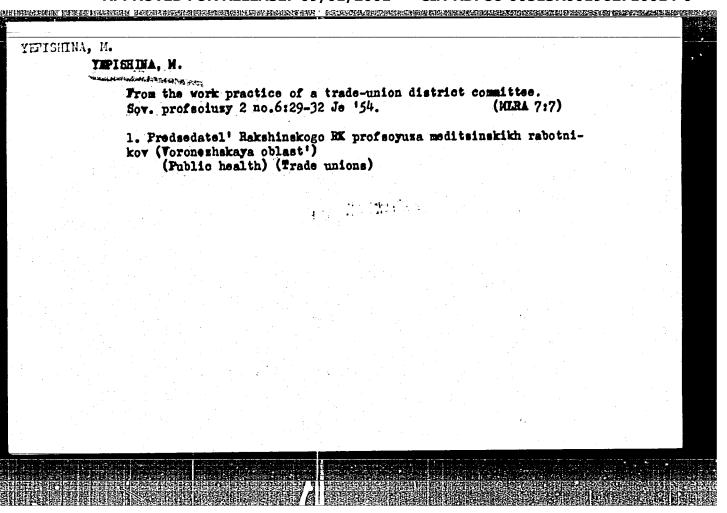
TOPIC TAGS: imidazole nitro derivative, methylformylimidazole oxime, nitrogen tetroxide, imide, organic nitro compound, organic oxime

ABSTRACT: In the proposed method, 2-nitro derivatives of imidazole are prepared by treatment of 4-methyl-5-formylimidazole oxime with nitrogen tetroxide at 2-3°C in absolute acetonitrile with further heating at ~70°C and isolation of the product by known methods.

[WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 24Mar65/

UDC: 547.781.5.07



MATISTATIN, D. P. - "Investigation of the process of operating cultivators in the continuous cultivation of soil in order to heprove their design". Leningrad, 1955. Min Wigher Education UCSC. Leningrad Order of Lenin Forestry Engineering Academy inemi S. M. Kirov. (Discertation for the Degree of Candidate of Technical Science.)

S0: Knizhmaya Letonis', No. h3, 72 Uctober 1955. Noscow

BOGOYAVLENSKIY, A.F. zasl. deyatel nauki i tekhniki Tatarskoy Avtonomnoy Sovetskoy Sotsialisticheskoy Respubliki, doktor khim. nauk, prof., red.; YEPISHKINA, L.S., inzh. red.

[Anodic protection of metals; reports] Anodnaia zashchita metallov; doklady. Pod red. A.F.Bogoiavlenskogo. Moskva, Mashinostroenie, 1964. 527 p. (MIRA 17:9)

1. Mezhvuzovskaya konferentsiya po anodnoy zashchite ot korrozii. 1st.

BEDA, G.A. (Moskva); YEPISHKIN, Yu.A. (Moskva)

Some problems in liquid film flow. Inzh.zhur. 1 no.2:60-68 '61. (MIRA 14:12)

(Boundary layer)

Meximum moment safety clutch on the turning mechanism of the S-419 tower crane. Stroi.i dor.mash. 7 no.2:15 F '62.

(MIRA 15:5)

(Granes, derricks, etc.—Safety appliances) (Clutches (Machinery))

Terification of the Method of Cultivating Shrubs of the Shivran Shakhi Variety and Technology on the Composition and Quality of Dessert Wines." Cand Agr Sci, Moscow Order of Lenin Agricultural Inst imeni K. A. Tiniryzaev, Moscow, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissortations Defended at USSR Higher Educational Institutions (16).

S/137/62/000/005/033/150 A006/A101

AUTHORS:

Ayrapetyan, G., Yepiskoposyan, M.

TITLE:

Preparation of selenium and tellurium by the acid method from anodic

slimes of the Alaverdy Copper-Chemical Combine

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 19, abstract 50114

("Prom-st' Armenii", 1961, no. 10, 32 - 36, Russian)

TEXT: The authors analyze an acid scheme for extracting Se and Te from copper-electrolytical slimes of the Alaverdy Copper-Chemical Combine. According to this scheme, the anodic slime is first processed with HNO₃ and then with $\rm H_2SO_{ll}$, at a gradual mixing with compressed air and heating of the pulp to $90^{\circ}C$. At the end of the slime decomposition, formalin is supplied into the reactor. The filtered solution is used for Ag precipitation and the cake for the additional extraction of precious metals. The filtered solution after separating of Ag, is used first for Se and then Te precipitation with the aid of $\rm SO_2$. At a $\rm HNO_3$: $\rm H_2SO_{ll}$: slime ratio = 1.5:0.9:1, the extraction into the solution is: Cu $\rm 100\%$; Se $\rm 97-98\%$, Te $\rm 84-85\%$.

[Abstracter's note: Complete translation]

Card 1/1

in the first of

AYRAPETYAN, G.; YEPISKOPOSYAN, M. Using the acidic method for producing selenium and tellurium of anode slime at the Alverdi Copper Chemical Works. Prom.Arm. 4 no.10:32-36 0 '61. (MIRA 14:11) (Alaverdi—Tellurium—Metallurgy) (Alawerdi—Selenium—Metallurgy)

YEPISKOPOSYAN, M.

Sulfating the roasting of copper concentrates in Armenia. Prom.Arm.
6 no.10:49-54 0 '63.

1. Naucjno-issledövatel'skiy gornometallurgicheskiy institut Soveta narodnogo khozyaystva ArmSSR.

YFFISKOPOSYAN, M.L.

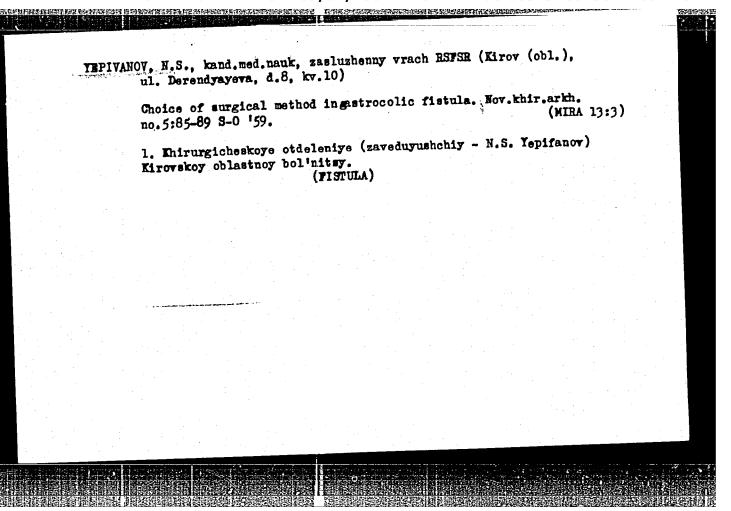
Kinetics of copper cementation with iron from CuCl₂ solutions. Izv.

AN Arm, SSSR, himm neuki 17 no.4:447-456 '64. (MIRA 18:6)

1. Nauchno-issledcvatel skly gorno-metallurgicheskiy institut
Soveta narodnogo knozyaystva ArmSSR.

YEPISKOPOSYAN, M.L.; KAKOVSKIY, I.A.

Studying the kinetics of copper and silver cementation by metallic iron from chloride solutions. TSvet.met. 38 no.10:15-19 0 '65. (MIRA 18:12)



ABEYDULINA, V.A.; ANNENKOV, G.V.; YEPKHIYEVA, L.G.; VOROB'YEVA, L.I., red.

[Methodology for determining the level of production mechanization in confectionery enterprises] Metodika opredeleniia urovnia mekhanizatsii proizvodstva na predpriiatiiakh konditerskoi promyshlennosti. Moskva, Izd-vo "Pishchevaia promyshlennosti," 1964. 99 p. (MIRA 17:4)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut kon-diterskoy promyshlennosti. 2. TSentral'nyy nauchno-issledovatel'skiy institut konditerskoy promyshlennosti, otdel ekonomiki (for Abeydulina, Annenkov, Yepkhiyeva).

YEPLOV, N.I. [Zeonomic evaluation of the addition of local cars to collector trains] Reconomicheskaia otsenka popolneniia sbornykh poezdov vagonami uchastkovogo potoka. Moskva, 1759. 21 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut zheleznodori zhnogo transporta. Soobshchenie, no.10) (Railroads---Making up trains)

21,2300

66544

AUTHOR:

Yeponeshnikov, V.N., Aspirant

SOV/144-59-4-12/13

TITLE:

A New Method for the Measurement of the Magnetic Field Drop

Index in Accelerators

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika,

1959, Nr 4, pp 118 - 122 (USSR)

ABSTRACT: The magnetic field /Index is defined by the relation:

 $n = (R/B)(\Delta B/\Delta R)$.

Eddy currents at the beginning of the acceleration cycle. and saturation effects at the end of the cycle change the magnitude of n very considerably. At certain instants of time, n may pass through resonance values which may lead to the termination of the acceleration process and hence the magnitude of n in the working region of the air gap should lie within a certain predetermined range of values. It follows that it is necessary to measure the drop index n as a function of time. A number of methods for this have been suggested in the literature (Refs 1-3) but these methods are complicated if high accuracy is to be achieved.

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SOV/144-59-4-12/13

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

Consider a set of cylindrical multilayer coils, 1, 3 and 2, as shown in Figure 1. The middle coil is at a radius \mathbf{R}_3 and the outer coils at radii:

$$R_1 = R_3 - \Delta R/2$$
 and $R_2 = R_3 + \Delta R/2$.

The induced electromotive forces in the three coils are then given by:

$$U_1 = -A_1 \frac{dB_1}{dt}$$
; $U_2 = -A_2 \frac{dB_2}{dt}$; $U_3 = -A_3 \frac{dB_3}{dt}$ (2)

where A_1 , A_2 and A_3 are the effective cross-sectional areas of the coils, respectively. If Eqs (2) are integrated, one obtains:

4

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A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

$$\int_{0}^{t} U_{1}dt = -k_{1} \cdot A_{1} \cdot B_{1}(t); \quad \int_{0}^{t} U_{2}dt = -k_{2} \cdot A_{2} \cdot B_{2}(t);$$

$$\int_{0}^{t} U_{3}dt = -k_{3} \cdot A_{3} \cdot B_{3}(t)$$
(5)

where k_1 , k_2 and k_3 are the transmission coefficients of the integrating circuit. It follows that:

1

Card 3/8

SOV/144-59-4-12/13

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

$$B_3(t) = -\frac{\sum_{k_3 \cdot A_3}^{t}}{k_3 \cdot A_3}$$
:

(4)

$$\Delta B(t) = B_1 - B_2 = -\frac{\int_0^t U_1 dt}{k_1 \cdot A_1} + \frac{\int_0^t U_2 dt}{k_2 \cdot A_2}$$

If the coils are made so that $A_1=A_2=A_3$ and the emf difference between the outer coils is integrated, using an integrating circuit having a transmission coefficient $k_{12}=k_1=k_2$, then the field drop index is given by:

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A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

$$n_{t} = \frac{R}{\Lambda R} \cdot \frac{k_{3}}{k_{12}} \int_{0}^{t} \frac{\int_{0}^{t} (U_{1} - U_{2}) dt}{t} = \frac{R}{\Lambda R} \cdot \frac{k_{3} \cdot \Lambda U'}{k_{12} \cdot U'}$$
 (5)

Thus, it is necessary to know the ratio of $\Delta U'/U'$. This may be done by applying $\Delta U'$ to the Y-plates and U' to the X-plates of an oscilloscope. If U' is proportional to $\Delta U'$ then one obtains a straight line. If, however, B and ΔB do not vary in the same way then a curve will be seen on the CRO screen (Figure 2). The displacement of the electron beam along the Y-axis at a time t will be given by:

$$y = m_y \cdot [\Delta U'] \tag{6}$$

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APPROVED FOR RELEASE: 09/01/2001

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A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

while the displacement along the X-axis will be:

$$x = m_{x} \cdot [U]$$
 (7)

where m_y and m_x are constants depending on the amplification, etc. of the oscilloscope. Using Eqs (6), (7) and (4), we have:

$$n_t = C. \frac{R}{\Delta R} \cdot \frac{y}{x}$$
 (8)

where:

$$c = \frac{m_x \cdot k_3}{m_y \cdot k_{12}} \tag{9} .$$

Thus, in order to measure n_t at a given radius R, it

Card 6/8

4

SOV/144-59-4-12/13

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

is necessary to know the ratio of the coordinates on the oscillogram and the magnitude of the quantity C . The origin of the coordinates is conveniently taken at the point where the field at the radius R passes through If, in addition to the middle coil at the radius R a permalloy probe is inserted, then the positive pulse from the probe coil may be used to modulate the brightness of the electron beam. Thus, the instant when the field passes through zero is indicated on the oscillogram by a bright point. This defines the origin of the coordinate. A trigger circuit with time delay which is also controlled by the permalloy zero-field probe is used to obtain on the oscillogram another bright point which marks a pre-set interval of time after the field at the radius R passes through zero. Eq (8) involves the quantity C and this is determined in a preliminary calibration. The method has been used to determine the effect of eddy current and

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V

A New Method for the Measurement of the Magnetic Field Drop Index in Accelerators

saturation on n_t.

There are 4 figures and 5 references, of which 1 is French, 3 English and 1 Soviet (translated from English).

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Institute)

1

Card 8/8

Vladurin Mekslywich SOV/144-59-6-12/15 V.N. Aspirant

AUTHOR: Yeponeshnikov, V.N. Aspir

TITLE: Effect of Eddy Currents on the Change in the Effective Angle of Quadrants of Synchrotrons with Straight Sections

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 6, pp 96 - 98 (USSR)

ABSTRACT: In racetrack-type synchrotrons, undesirable end effects in the transition region between magnetic quadrants and field free straight sections are caused by the leakage flux and by out-of-phase field components, due to eddy currents in the end laminations. The leakage flux increases the effective angle of the quadrants, which is defined as the angle through which the main field in a quadrant deflects an electron, while the latter travels from the mid-point of one straight section to the mid-point of the next one. If the geometrical angle of the quadrant is TV/2, then due to flux leakage, the effective angle of the quadrants will be greater than TV/2. This effect has been investigated experimentally by the present author, who measured the magnetic-field distribution in the straight sections. The author concludes that the effect of eddy

Card 1/2

SOV/144-59-6-12/15 Effect of Eddy Currents on the Change in the Effective Angle of Quadrants of Synchrotrons with Straight Sections

currents in the end laminations may be eliminated by suitable shaping of the magnet ends. If the shaping is insufficient, then the edge effect must be compensated during the injection time by an additional compensating coil. There are 1 figure and 3 references, of which 2 are Soviet and 1 English.

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Institute)

REGISTER ENGINEERING SECTION S

Card 2/2

s/139/60/000/01/025/041 E032/E414

21,2100

AUTHORS:

Yeponeshnikov, V.N., Kirillov, V.P., Kuz'min, V.N.

and Petrov, Yu.K.

The Dynamics of the Effective Angle of a Sector in TITLE :

Accelerators with Straight Line Sections

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

1960, Nr 1, pp 139-144 (USSR)

The design orbit in accelerators with straight line sections is usually in the form of a closed curve ABSTRACT:

consisting of four straight line sections connected by four circular arcs of radius ro and subtending an angle of 90° at the centre. One of the necessary conditions for the actual orbit to coincide with the design orbit is that the magnetic field should be zero over the straight line sections and uniform over the

other sections. However, owing to leakage, the true magnetic field always differs from the design field so that it is always necessary to introduce the concept of

the effective angle of a sector and this is defined by Card 1/3

APPROVED FOR RELEASE: 09/01/2001

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S/139/60/000/01/025/041 E032/E414

The Dynamics of the Effective Angle of a Sector in Accelerators with Straight Line Sections

Eq (1). The actual distribution of the field is normally of the form indicated by Fig 1. The effective angles of sectors will decrease at low fields owing to eddy currents and residual induction. They will also decrease at high fields owing to saturation effects. This will lead to the appearance of a well-defined fourth harmonic of the distortion of the design orbit, and to a reduction in the maximum energy of the accelerated particles. In the case of inductive acceleration, the betatron ratio is also affected. these effects have been investigated by the present authors using a plane model. The effects have been found to be small towards the end of the acceleration cycle. They have the biggest effect at the beginning of the cycle. In the latter case the amplitude of the fourth harmonic of the design orbit becomes comparable with the radial dimension of the working region and the change in the betatron ratio may be of the order of a few

Card 2/3

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S/139/60/000/01/025/041 E032/E414

The Dynamics of the Effective Angle of a Sector in Accelerators with Straight Line Sections

tenths of a percent. The reduction in the sector angle may be compensated at the beginning of the acceleration cycle by increasing the injection energy. The field at sector edges may be corrected by d.c. current methods. There are 5 figures and 2 references, 1 of which is Soviet and 1 English.

ASSOCIATION:NII pri Tomskom politekhnicheskom institute
imeni S.M.Kirova (Scientific Research Institute of the
Tomsk Polytechnical Institute imeni S.M.Kirov)

SUBMITTED: April 3, 1959

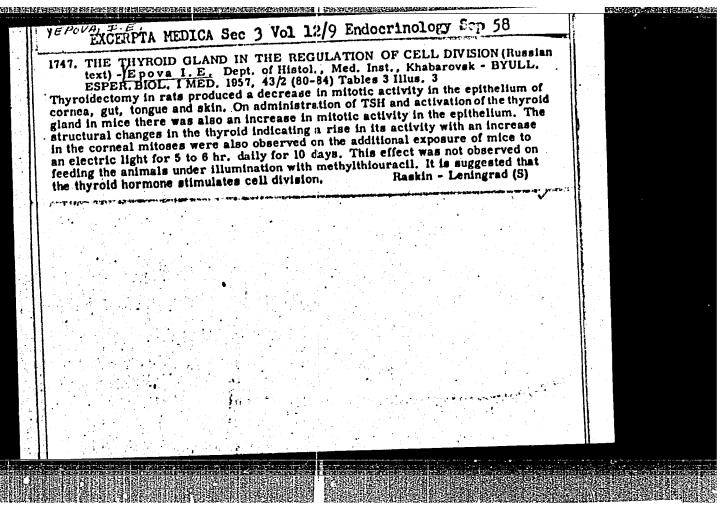
Card 3/3

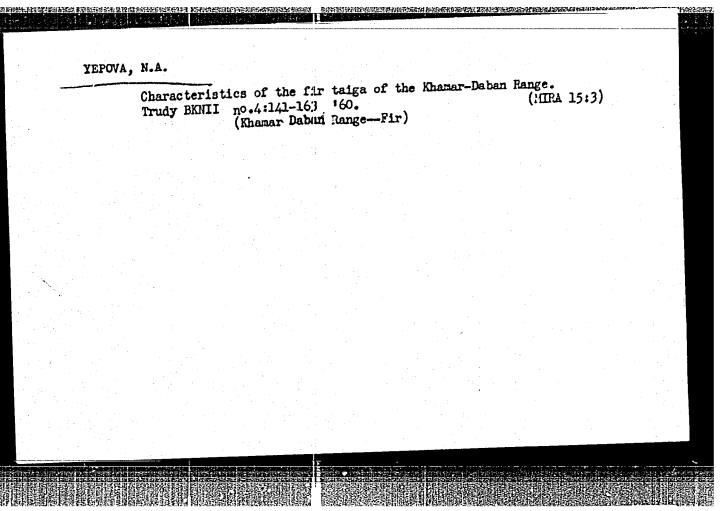
YEPORCYA, I. A.

253hO

EPORCYA, I. A. Ob interpolirovanii po kornyam polinomov chebysheva. Uchen.
Zapiski (Leningr Gos. Ped. in-t im. Gertsena), T. LXIV, 19hc, s. 27-3h.

SO: Letopis' Zhurnal Statey No. 30, Moscow, 19h8





YEPOYA, N.A.

Fractional division of the Khamar-Daban Range (southern part of cantral Siberia) into geobotanical regions. Probl. bot. 5:47-61 (MIRA 13:10)

 Kafedra botaniki Irkutskogo universiteta, Irkutsk. (Khamar-Daban Range--Phytogeography)

Strength and deformation of light concretes with volcanic aggregate under repeatedly reversing load. Izv. AN Arm. SSR. Ser. tekh. nauk. (MIRA 18:4) 1. Armyanskiy nauchno-issledovatel skiy institut stroitel nykh materialov i sooruzheniy.

YEPREMIDZE, K.I.

Industrial production should correspond to state standards.
Standartizatsiia-29 no.1:58 Ja 165. (MIRA 18:4)

l. Nachal'nik otdela standartizatsii i normalizatsii Kutaisskogo avtomobil'nogo zavoda imeni Ordzhonikidze.

MUSHECYAN, G.P., YEPRENYAN, G.A.; ADAMYAN, F.A.

Regeneration of peripheral nerves. Nauch.trudy Inst.fiziol. AN Arm. SSR. 3:95-101 *50. (MIRA 9:8) (MERVOUS SYSTEM--DEGENERATION AND REGENERATION)

USSR/Human and Animal Physiology. Nervous System. Spinal Cord. T-10

Abs Jour: Ref Zhur-Diol., No 12, 1958, 55999.

Author : Yepremyan, G. A., Matinyan, L.A.

: Academy of Sciences AmssR, Section of Biology Inst

and Agriculture.

: Histophysiological Characterization of Compensatory Title

Adaptations in Turtles After a Partial Transection

of the Posterior Spinal Cord.

Orig Pub: Izv. AN Arm SSR. Liol. i s.-kh. n., 1957, 10, No 7,

99-106.

Abstract: When a partial cross transection of the posterior

spinal cord (SC) between S3 and Th, was performed on 16 adult turtles (T), it led to increased sensitivity of the hind paws, to an insignificant decrease in reflectory muscular contractions, a shortening of the

: 1/3 Card

154

T-10.

USSR/Human and Animal Physiology. Nervous System. Spinal Cord.

Absidour: Ref Zhur-Diol., No 12, 1958, 55999.

time for the muscles to become weaker, as well as to disturbed locomotion. These functional impairments were restored within the 5th-8th day after the operation. In 4 young T the functional impairment of the lower extremities was restored 24-36 hours after an equivalent operation. On the 3th to 4th day a restoration of SP conduction leading from the lower to the upper area of the spinal cord was observed. The transection of a large part of SC in adult T led to functional disturbances which were not restored during 4 months of observations. In seven T a norphological examination of the inpaired sectors of SC was performed by the staining method with hematoxylin and eosin, and by silver impregnation according to Bil'shovskiy-Gros, as

: 2/3 Card

USSR/Human and Animal Physiology. Nervous System. Spinal Cord. T-10
Abs Jour: Ref Zhur-Diol., No 12, 1958, 55999.

modified by Lavrent'yev. (This method is not adequate for the exposure of the neuron structure and of the spinal cord's conduction ducts. The abstractor's remark),

Card : 3/3

155

YZPREMYAN, G.A. (Yerevan)

Frequency of congenital heart defects. Arkh. pat. 19 no.1:61

1. Iz kafedry patologicheskoy anatomii (zav.-dotsent V.T. Gabriyelyan) Yerevanskogo m editsinskogo instituta. (HEART--ABNORMITIES AND DEFORMITIES)

TEPREMIAN, G.A.

Amedianis of the colon. Izv. AH Arm.SSR. Biol. i sel'khoz.nauki
11 no.8:101-104 Ag '58. (MRA 11:10)

1. Kafedra gistologii Yerevanskogo meditsinskogo instituta.
(AMEBIASIS) (COLOH (ANATOMY)--DISPASES)

Reactive changes in the lung parenchyma due to thermal burns.

Izv. AN Arm. SSR. Biol. nauki 13 no.2:53-62 F '60. (MIRA 13:7)

1. Kafedra gistologii i embriologii Yerevanskogo meditsinskogo instituta.

(EURINS AND SCALDS)

(LUNCS—WOUNDS AND INJURIES)

YEPREMYAN, G.A.

Reactive changes in the lung parenchyma resulting from injuries by different metals. Izv. AN Arm. SSR. Biol. nauki 14 no. 4:27-37 Ap 161. (MIRA 14:4)

1. Kafedra gistologii i embriologii Yerevanskogo meditsinskogo instituta.

(LUNGS—WOUNDS AND INJURIES)

YEPREMYAN, G.A., dotsent; MATINYAN, L.A.

Compensatory adaptations following ligation of the posterior half of the spinal cord in chickens. Trudy Erev.med.inst. no.11:91-96 160. (MIRA 15:11)

1. Iz kafedry gistologii i embriologii Yerevanskogo gosudarstvennogo meditsinskogo instituta - zav. kafedroy dotsent G.A. Yepremyan i Instituta fiziologii AN Armyanskoy SSR - direktor prof. A.M. Aleksanyan.

(ADAPTATION (BIOLOGY))
(SPINAL CORD—LOCALIZATION OF FUNCTIONS)

MATINYAN, L.A.; YEPREMYAN, G.A.

。 安全的主题是否定是否定是的特别的证明,例如他们是否完全的特别的证明,可以可以证明的证明的。

Histophysiological characteristics of the spinal cord after its complete severing and the use of lidase, hyaluronidase, and proserine. Zhur.eksp. i klin.med. 4 no.3:3-12 164. (MIRA 18:1)

l. Institut fiziologii imeni akademika L.A.Orbeli AN Armyanskoy SSR i Kafedra gistologii Yerevanskogo meditsinskogo instituta.

YERREMYAN, P.L. "Sutural" anticline zone in the Lake Sevan region. Dokl. AN Arm. SSR 41 no. 4:230-234 '65 (MIRA 19:1) 1. Gosudarstvennyy proizvodstvennyy geologicheskiy komitet Armyanskoy SSR.

YEPSHEYN, YC.F.

AUTHOR: None Given.

24-1-25/26

TITLE:

New methods of investigation of the processes of disruption of rocks by mechanical methods. (Novyye metody issledovaniya protsessov razrusheniya gornykh porod mekhanicheskimi sposobami).

PERIODICAL: Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh Nauk, 1958, No.1, p.143 (USSR).

ABSTRACT: Over 160 investigations are proceeding in the Soviet Union relating to the breaking up of rocks. At the Institute of Mining (Institut Gornogo Dela) a conference was held between September 25 and 27, 1957 with the participation of establishments of the Ac.Sc. and other research institutes as well as representatives of over fifty organisations.

Doctor of Technical Sciences, Prof. M. M. Protod'yakonov presented a paper on the aims of the conference; the first day was to be devoted to methods of investigation of processes of drilling blast holes and wells.

N. N. Simonov in his paper "Technique of investigation of the power consumed for drilling shot holes in the case of forced feeding of the drilling bit" and

Card 1/5 M. G. Krapivin in his paper "Technique of investigation of the operation of the tool bit of an electric drill"

New methods of investigation of the processes of disruption of rocks by mechanical methods.

reported on the work proceeding in the Novocherkassk Polytechnical Institute (Novocherkasskiy Politekhnicheskiy Institut).

A. A. Volkov, Khar'kov Mining Institute (Khar'kovskiy Gornyy Institut) read the paper "Prospects of application of electrical methods of measuring the parameters of the drilling process" using an induction torsion dynamometer developed by this author. The application of wire strain gauges, piezo-electric and inductive pick-ups and of stroboscopic photography was considered in the paper "Methods and techniques of investigation of certain elements of the process of drilling and operation of drilling apparatus" by Ye. F. Yepsheyn, Dnepropetrovsk Mining Institute (Dnepropetrovskiy Gornyy Institut). S. G. Kaloshin, Institute of Mining, Ac.Sc. Kazakh SSR (Institut Gornogo Dela Akademii Nauk Kazakhskoy SSR) described the study by means of stereophotography of the profile of a channel formed in the rock during the impact The paper of V. I. Dusev, Moscow Institute of the drill. of Non-Ferrous Metals and Gold (Moskovskiy Institut

Card 2/5 Tsvetnykh Metallov i Zolota) dealt with the technique of

New methods of investigation of the processes of disruption of rocks by mechanical methods.

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investigation of the effectiveness of disruption of rocks in the case of impact-swivelling drilling by means of drilling bits of various designs. During the discussion of the above papers O. D. Anisimov, Tomsk Polytechnical Institute (Tomskiy Politekhnicheskiy Institut) described a stand for operating rotational, impact-swivelling, impact-rotational methods of drilling. M. M. Protod'yakonov pointed out that for a number of asymptotic relations evaluation of experimental data on logarithmic coordinate grids is inapplicable and he proposed the use of rectified curves by applying shifted In his paper "Methods of investigation of hyperbolas. the mechanical properties of rocks at high pressures" M. P. Volorovich, Institute of Physics of the Earth. Ac.Sc. USSR (Institut Fiziki Zemli Akademii Nauk SSŚR) gave a general review of investigations carried out outside the Soviet Union, in addition to expressing certain views himself. R. M. Eyveles (VNIIBurneft') read a paper on the methods of synchronisation of recordings of a large number of metering instruments when studying rapid non-repetitive processes (impact of a blade edge on rock) and also for studying elementary acts of disruption on a

New methods of investigation of the processes of disruption of rocks by mechanical methods.

transparent material (glass) by means of polarised light and high speed filming (to 4000 frames per second). In his paper "Technique of investigations of the execution organ of the Kiev mechanised heading machine" K. B. Shlyapin, VNII-Transport Construction (VNII Transportnogo Stroitel'stva) dealt with experimental work under mine conditions. V. P. Fomichev described in his paper the technique of laboratory investigations of the force of feeding the cutting bit during cutting of mined coal. Members of the Institute of Building Materials and Structures of the Armenian SSR, Ac. Sc. (Institut Stroitel'nykh Materialov i Sooruzheniy AN Armyanskoy SSR) presented two papers, namely, "Technique of investigation of the process of splitting natural stones by blades with wedges during static and dynamic operation" (A. A. Abramyan) and "Technique of investigation of friction and wear during cutting of rocks" (K. S. Vardanyan). In the discussions R. L. Zagorskiy, All-Union Coal Research Institute VUGI (Vsesoyuznyy Nauchno-Issledovatel'skiy Ugol'nyy

Card 4/5 Institut VUGI) described briefly a test stand for planetary

New methods of investigation of the processes of disruption of rocks by mechanical methods.

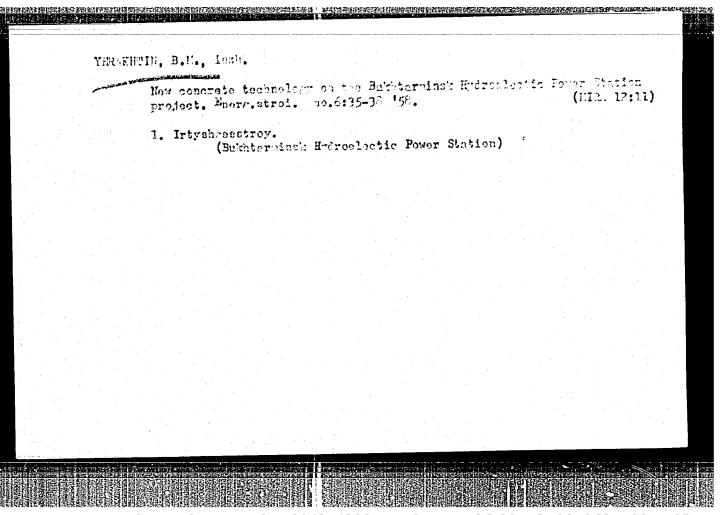
cutting of rocks and Chumak, All-Union Research Institute for the Organisation and Mechanisation of Mine Construction VNIIOMShS (Vsesoyuznyy Nauchno-Issledovatel'skiy Institut Organizatsii i Mekhanizatsii Shakhtnogo Stroitel'stva VNIIOMShS), described a test stand for investigating vibro-impact drilling. In the resolutions it was mentioned that, in spite of known achievements in the field of developing experimental methods and techniques for studying processes of disruption of rocks, utilisation of the latest achievements in physics is lagging. For instance, radioactive isotopes, semi-conducting instruments etc. are not being used on an adequate scale. It was also pointed out that most institutes were forced to design and build strain gauge apparatus and a number of metering instruments on a very small scale and evidently it will be necessary to organise centralised manufacture of such apparatus.

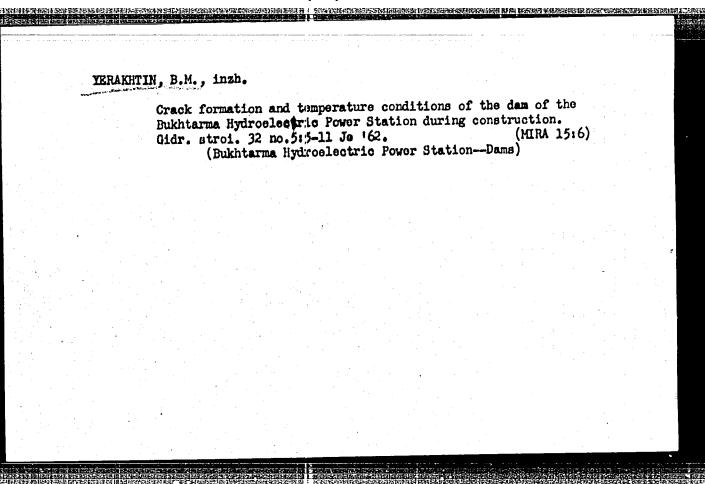
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(Note: This is an almost complete translation).

AVAILABLE: Library of Congress.

Topics of the second se	Manage Manage
L LO337-66 EWP(1)/EWT(m)/T IJP(c) RM SOURCE CODE: UR/0-19/69/000/0019/0015	
ACC NILL ARGOSTICE (A)	
AUTHOR: Navumava, S. F.; Slabodchykava, L. K.; Yerafeyev, B. V.	
ROTADA: NAVES P	
ORG: None	
TITLE: Epoxy resin based on polycyclchexadiene-1,3	
SOURCE: AN BSSR. Vestsi. Seryya khimichnykh navuk, no. 2, 1965, 10-15	
SOURCE: An abor. Vestor. bory, diene synthesis,	
TOPIC TAGS: epoxide, epoxy resin , hydrogen peroxide, cyclic group, diene synthesis,	
ol of in	
ABSTRACT: The authors study epoxidation of polycyclohexadiene-1,3 in a mixture of hydrogen peroxide and formic acid as a function of concentration of the epoxidizing hydrogen peroxide and formic acid as a function of concentration of the epoxidizing reagents, the order in which they are added and the time and temperature of epoxidation. It is found that epoxidation under mild conditions produces an eposy resin dation. It is found that epoxidation of 6-9%. Optimum conditions for using hydrogen with an epoxide oxygen concentration of 6-9%. Optimum conditions for using hydrogen peroxide and formic acid in epoxidation of polycyclohexadiene-1,3 are as follows: peroxide and formic acid in epoxidation of polycyclohexadiene-1,3 to be peroxide concentration of 35-70% with respect to the polycyclohexadiene-1,3 to be epoxidized; a temperature of 40°C and an epoxidation time of 5 hours. Orig. art. has:	
7 tables.	
SUB CODE: 11/ SUEM DATE: none/ ORIG REF: 005/ OTH REF: 003	
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VULIS, L.A.; YERAKHTIN, B.M.; INYUSHIN, M.V.; LUK'YANOV, A.T.

Calculation of thermal conditions of a concrete dam for the selection of efficient methods of construction work. Inzh.-fiz.zhur. 6 no.10:3-8 0 !63. (MIRA 16:11)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, Alma-Ata.

LITVINOVA, R.Ye., inzh.; YERAKHTIN. B.M.; VOLOKHOV, V.A.; SHILOV, V.A.

Pouring of concrete mixture at the Bukhtarma Hydroelectric Power Station in long blocks without longitudinal seams. Energ. stroi. ... no.16:13-15 '60. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki imeni B.Ye. Vedeneyeva (for Litvinova). 2. Stroitel'stvo Bykhtarminskoy gidroelektrostantsii (for Yerakhtin). 3. Koskovskiy filial Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva (for Volckhov, Shilov).

YERAKETIN, D. D.

Tractors

Means for increasing the power of tractor KT-12. Les. prom. 12 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

YERAKHTIN, D. D., Docent; SHASHEV, I. A., Eng.

Lumber - Standards

Temporary garages and simplified kilns for gas-generating blocks. Les. prom. 12 no. 9, 1952.

1952

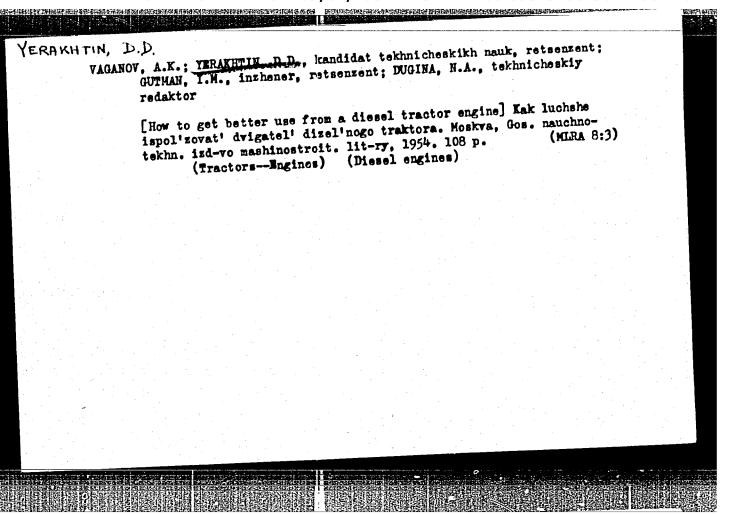
9. Monthly List of Russian Accessions, Library of Congress, December XXXXX Uncl.

College for the dark common process, where the second of the college is the second of the college is the college in the college in the college in the college is the college in the colleg	
Yerakhtin, D D	
Narovaya ustanovka dlya razorrevaniya aytongoller d tenttorov na lesessy of syka) pri bezgarazhnom khranenii (Steam installation for warning up noter vehicles and tractors kent outside of arages in loging camps: Noskva, Goolesburiziat, 1953	
73 p. diggrs.	
n/5 7/13.29	

YERAKHTIN, D.D.

SIDOROV, F.F.; ZOIRSKIY, Ch.I.; ANAKIN, I.A.; YERAKHTIN, D.D., kandidat tekhnicheskikh nauk, retsensent; 5080LEV, L.A.; Inthemer, retsensent; BUSHUTLEV, H.M., kandidat tekhnicheskikh nauk, redaktor; SHABASHOV, A.P., kandidat tekhnicheskikh nauk, redaktor.

[Repair of agricultural machinery] Remont sel'skokhosisistvennykh mashin. Sverdlovsk, Gos. nauchno-tekhn. isd-vo machinostroit. i sudostroit. lit-ry [Uralo Sibirskoe otd-nie] 1953. 295 p. (MLRA 7:6) (Agricultural machinery-Repairing)



YERAKHTIN, Dmitriy Dmitriyevich; SOLOVIYEV, N.S., redaktor; PITERMAN, Ye., L., reductor; RAMASIK, N.P., tekhnicheskiy redaktor.

[Diese: locomotives for lumber haulage] Hotovozy lesotransporta. Hoskva, (Boslesbumizdat, 1955, 285 P. (HIRA 8:4)

(Lumber—Transportation)

YERAKHTIN, D.D., dotsent; PARFEMOV, G.M., dotsent.

Means of over-all mechanization of lumbering operations. Mekh.
trud. rab. 10 no.9:35-37 B '56.

(Lumbering--Machinery)

ANDRYUSHCHENKO, Yu.S.; BAGIN, Yu.I.; BASHKIRTSEV, A.A.; BELEN'KOV, G.Ye.; BELINICHER, I.Sh.; BUSHUYEV, N.M.; VAGANOV, A.K.; GASHEV, A.M.; YES'KOV, K.A.; ZGIRSKIY, Ch.I.; IGHAT'YEV, M.I.; KORUSHKIN, Ye.H.; KUZ'MOV, N.T.; PATSKEVIĆH, I.R.; PICHAK, F.I.; RAYTSES, V.B.; RUDAKOV, A.S.; SAPRYKIN, V.M., SIDOROV, F.F.; UMINSKIY, Ye.A.; KHANZHIN, P.K.; CHEREMOVSKIY, Yu.I.; YERAKHTIN, D.D., kand.tekhn.nauk; retsenzent; MAKAROV, M.P., inzh., retsenzent; Torbeyev, Z.S., kand. tekhn.nauk, retsenzent; POLKANOV, I.P., kand.tekhn.nauk, retsenzent; IGNAT'YEV, M.G., agronom, retsenzent; GUTMAN, I.M., inzhener, retsenzent; SARAFAHNIKOVA, G.A., tekhn.red.; YERMAKOV, M.P., tekhn.red. [Manual for agricultural mechanizers] Spravochnik mekhanizatora sel'skogo khoziaistva. Moskva, Gos.nsuchno-tekhn.isd-vo mashinostroit. lit-ry. Pt.1. [Tractors and automobiles, agricultural machinery and implements, and operation of machine and tractor yards] Traktory i avtomobili, sel'skokhoziaistvennye mashiny i orudiia, ekspluatatsiia mashinno-traktornogo parka. Pod. red.N.M.Bushueva. 1957. 462 p. (MIRA 10:12) (Machine-tractor stations)

ANDRYUSHCHENKO, Yu.S.; BAGIN, Yu.I.; BASHKIRTSEV, A.A.; BELLEN'KOV, G.Ye.;

BELINICHER, I.Sh.; BUSHUY.V, N.M.; VAGANOV, A.K.; GASHEV, A.M.;

YES'KOV, K.A.; ZGIRSKIY, Ch.I.; IGANT'YEV, M.I.; KOHUSHKIN, Ye.N.;

KUZ'MOV, N.T.; PATSKEVICH, I.H.; PICHAK, F.I.; PAYTSES, V.B.;

RUDAKOV, A.S.; SAPRYKIN, V.M.; SIDOHOV, F.F.; UMINSKIY, Ye.A.;

KHANZHIN, P.K.; CHEMEMOVSKIY, Yu.I.; YERAKHTIN, D.D., kand, tekhn.

nauk, retsenzent; MAKAROV, M.P., inzh., retsenzent; TORBEYEV, Z.S.,

kend, tekhn. nauk, retsenzent; POLKANOV, I.P., kand, tekhn. nauk,

retsenzent; IGNAT'YEV, M.G., agronom, retsenzent; GUTMAN, I.M.,

inzh., retsenzent; YERMAKOV, N.P., tekhn. red.; SARAFANNIKOVA, G.A.,

tekhn. red.

[Reference manual for the agricultural machine operator] Spravochnik mekhanizatora sel'skogo khoziaistva. Pt.2. [Repair of tractors and agricultural machinery] Remont traktorov i sel'skokhoziaistvennykh mashin. Pod red. N.M. Bushueva. Moskva, Gos. nauchno-tekhn. izd-wo mashinostroit. lit-ry. 1957. 335 p. (MIRA 11:9) (Agricultural machinery—Maintenance and repair)

YERAKHTIE Dmitriy Dmitriyevich; ORLOV, S.F., prof., retsens. It; YOROWITSIN, K.I., dots., retsenzent; PITERMAN, Ye.A., red., isd-va; KARASIK, N.P., tekhn., red.; BACHURIMA, A.M., tekhn., red.

[Traction machinery. Pt. 2. Steam locomotives, gasoline and diesel locomotives, electric locomotives] Tiagovye machiny. Moskva, Goslesbumizdat. Pt. 2. Parovozy, motovozy, elektrovozy, 1957. 488 p. (MIRA 11:7)

1. Kafedra tyagovykh mashin Leningradskoy lesotekhnicheskoy akademii im. S.M. Kirova (for Orlov). 2. Tšentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii i energetiki lesnoy promyshlennosti (for Voronitsin).

(Locomotives)

COLIDERO, Aleksandr Moritsevich; ZAYCHIK, G.I., prof., doktor tekhn.
nauk, retsensent; YERAKHTIN, D.D., dotsent, retsensent;
SCIOVINV, M.S., red.; PITEMME, Te.L., red.izd-va; BACHURINA,
A.M., tekhn.red.

[Engines for machines used in lumber transportation] Dvigateli
lesotransportnykh machin. Moskva, Goslesbumizdat, 1959. 470 p.
(MIRA 12:7)

(Engines) (Lumbering--Equipment and supplies)

YERAKHTIN, Dmitriy Dmitriyevich, dots., kand. tekhn. nauk; GOKHMAN,
Shlema Molseyevich, kand. tekhn. nauk; DVINYANINOV, Vistor
Hikolayevich, st. prepodavatel; ZAYTSEV, Pavel Alekseyevich,
inzh.; LOPATIN, Anton Venediktovich, dots.; ORLOV, Nikolay
Mikhaylovich, inzh.; STRATANOVICH, Nikolay Nikolayevich, inzh.;
STRIGANOV, Nikolay Ignat'yevich, inzh.; TIKHONOV, Nikolay
Prokop'yevich, dots., kand. tekhm. nauk; RAYKHLIN, Zaliman
Prokop'yevich, dots., kand. tekhm. nauk; RAYKHLIN, Zaliman
Tanfilovich, st. prepodavatel'; BELOV, Aleksandr Yemel'novich,
dots.; RESHETNIKOV, N.S., dotsent, retsenzent; BAEUSHKIN, I.N.,
red.; PITERMAN, Ye.L., red.izd-va; PARAKHINA, N.L., tekhm. red.

[Repair of lumbering and forestry machinery] Remong lesozagotovitel'nykh i lesokhoziaistvennykh mashin. By D.D.Erakhtin i dr. Moskva, Goslesbumizdat, 1961. 436 p. (MIRA 15:2)

1. Kafedra remonta Moskovskogo lesotekhnicheskogo instituta (for Reshetnikov). (Forests and forestry—Equipment and supplies) (Lumbering—Machinery)

YERAKHTIN, D.D., otv. za vyp.; YELCHINA, L.A., red.izd-va; KAZANSKAYA, L.I., tekhr. red.

[Collected papers on the exchange of production and research experiences in the lumbering industry] Sbornik rabot po obmenu proizvodstvennym i nauchnym opytom v lesnoi promyshlennosti. Moskva, Goslesbumizdat, 1963. 69 p. (MIRA 17:3)

1. Nauchno-tekhnicheskoye obshchestvo lesnoy promyshlennosti i lesnogo khozyaystva. Mariyskoye oblastnoye pravleniye.

ACC NR: AP6036113

SOURCE CODE: UR/0365/66/002/006/0686/0691

AUTHOR: Shalyafirner, A. M.; Degtyareva, R. A.; Pimenov, A. F.; Alysheva, Ye. I.; Yerakov, V. I.; Lifanov, V. F.; Anzin, G. N.

CRG: Moscow Institute for Steels and Alloys (Moscovskiy institut stali i splavov); Contral Research Institute for Ferrous Motals (Tsentral'nyy nauchno-issledovatel'skiy institut chernykh metallov); Novolipetskiy Metallurgical Plant (Novolipetskiy metallurgicheskiy zavod)

TITIE: Internal exidation of steel with 3% silicon

SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 686-691

TOPIC TAGS: metal oxidation, silicon steel, hot rolling

ABSTRACT: The article reports a study of the oxidation and decarbonization of steel with 3% silicon and 0.05% carbon in the process of hot rolling in an industrial unit, and of decarbonizing annealing (in the presence of scale) in industrial electric furnaces. Steel strips were hot rolled to a thickness of 2.5 mm. In rolling, the furnaces. Steel strips was maintained at $940 \pm 10^{\circ}$. The total length of the initial oxidation temperature was maintained at $940 \pm 10^{\circ}$. The total length of the discharge table was 36 meters; in the last 30 meters the strip was cooled rapidly with water and was in an atmosphere of steam. After this, the strip was coiled and the air supply was cut sharply. The average cooling rate of the strip on the table, under

Card 1/2

UDC: 620.193.5

ACC NR: AP6036113

different rolling conditions, varied only slightly and was from 19-23 degrees/sec. The total oxidation time and the temperature of the strip before coiling were varied by changing the rolling rate. The temperatures of the strip before water cooling and before coiling were measured with an optical pyrometer and were recorded automatically. The coils were cooled in air over a period of 24 hours. Data on the values of the two abovementioned temperatures and on the time of the oxidation process are presented in a table. Based on the experimental data, a table shows the effect of hot rolling conditions on the formation of scale and on the rate of etching after annealing. In the production of steel, it is necessary to take certain measures which limit the process of internal oxidation: 1) the exit temperature of the strip should be lowered to 900° and the temperature of coiling up to 590-600°, because of the effect of the increase of the cooling rate under the influence of the blowing system; 2) the oxidation time of the metal on the discharge table should be shortened by increasing the rolling rate; 3) the heating rate and the temperature in decarbonization annealing should be increased; this leads to more favorable conditions for the oxidation of carbon, compared to the oxidation of silicon. Orig. art. has: 4 figures and 3 tables.

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到这种的影响,这是四个时间的现在分词,可以可以使用的影响。

ROST, A.N.; YERAKSINA, V.N.; VINOBRADOVA, Ye.V.

Reduction of the keto group in 3-(parhoxyasyl) indoles. Znur. org.
(MIRA 18:5)

khim. 1 no.1:129-133 Ja '65.

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

YEFALOVICH, Yageniya.

A collective farm's wealth, Rab, i Sial. 31 no.11:16 W '55.

(MLRA 9:1)

1.Il'nanodka, deputat Vyarkhounaga Soveta ESSR, Iuyeuski rayen.

(Iv'ya District--Collective farms)